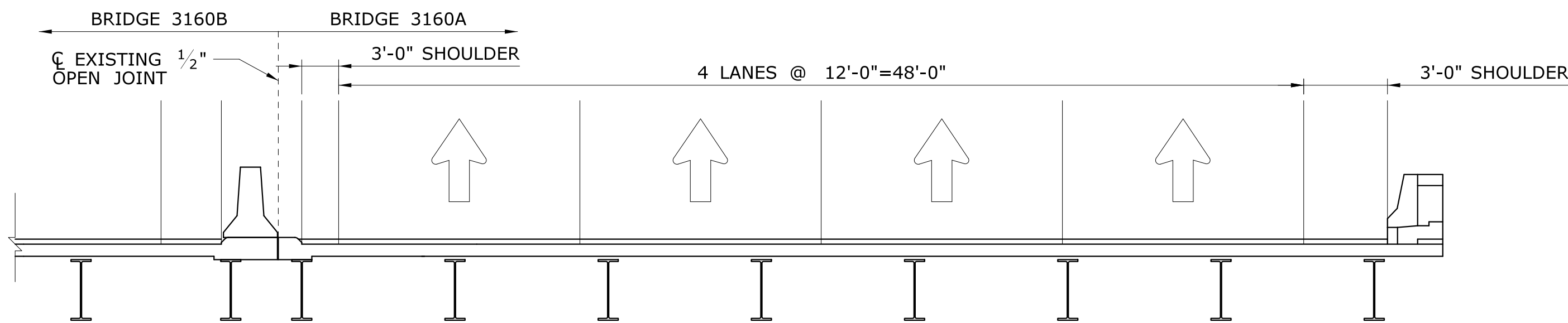


[illegible]

DESIGNED BY:  
HARDESTY & HANOVER, LLC  
NEW HAVEN, CT

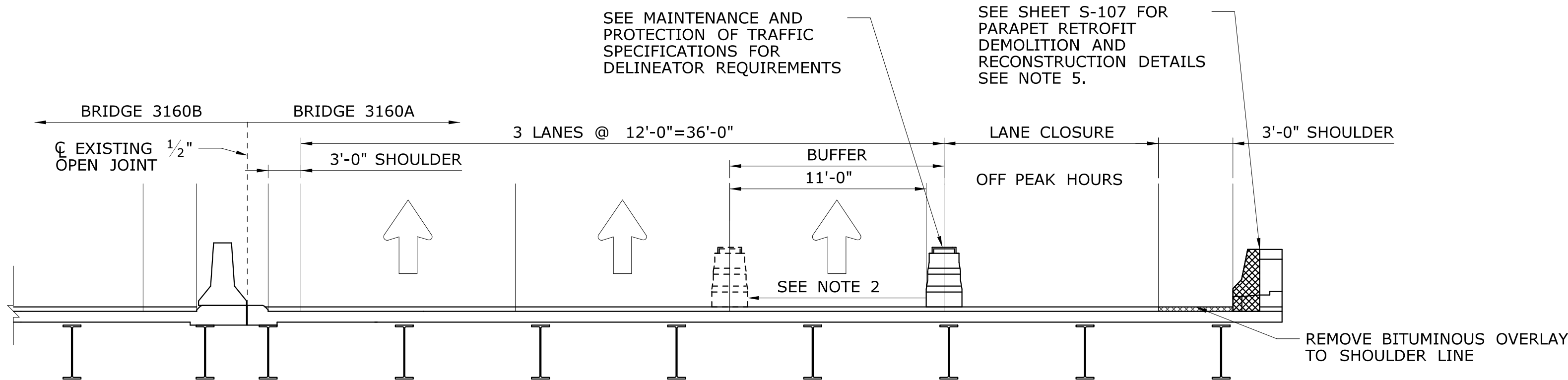
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-		-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>MSF</b>	SIGNATURE/ BLOCK:	PROJECT TITLE:	TOWN:	PROJECT NO.
-		-	-		CHECKED BY: <b>BSH</b>	Hardesty & Hanover, LLC 59 Elm Street New Haven, CT 06510 Hardesty & Hanover	<b>BRIDGE NO. 03160A-D, 3301 &amp; 3303 I-84 EB/WB OVER AMTRAK &amp; LOCAL ROADS (AETNA VIADUCT)</b>	<b>HARTFORD</b>	<b>63-699</b>
-		-	-		SCALE AS NOTED			DRAWING TITLE: <b>JOINT RECONSTRUCTION STAGING PLAN</b>	DRAWING NO. <b>STG-02</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/8/2016		Filename: ...\\SB_MST_BR3160_63-699_Staging_Plans-1.dgn			SHEET NO. <b>01.07.02</b>



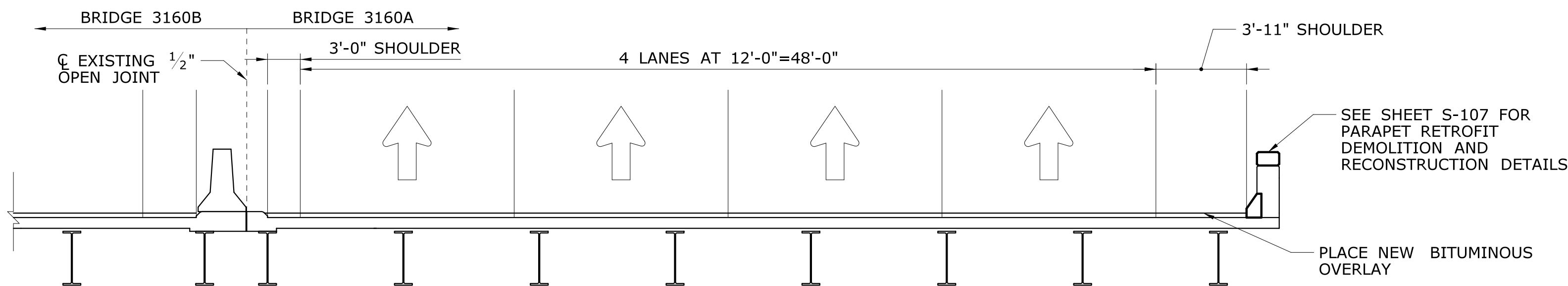
**EXISTING CONDITION - PARAPET ONE SIDE**

NOT TO SCALE



**SEASON 1 - PARAPET RECONSTRUCTION**

NOT TO SCALE



**SEASON 1 - COMPLETED PARAPET**

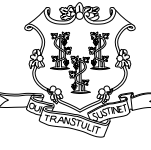
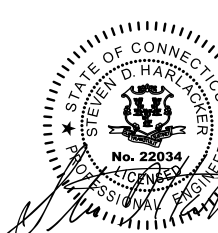

NOT TO SCALE

**NOTES:**

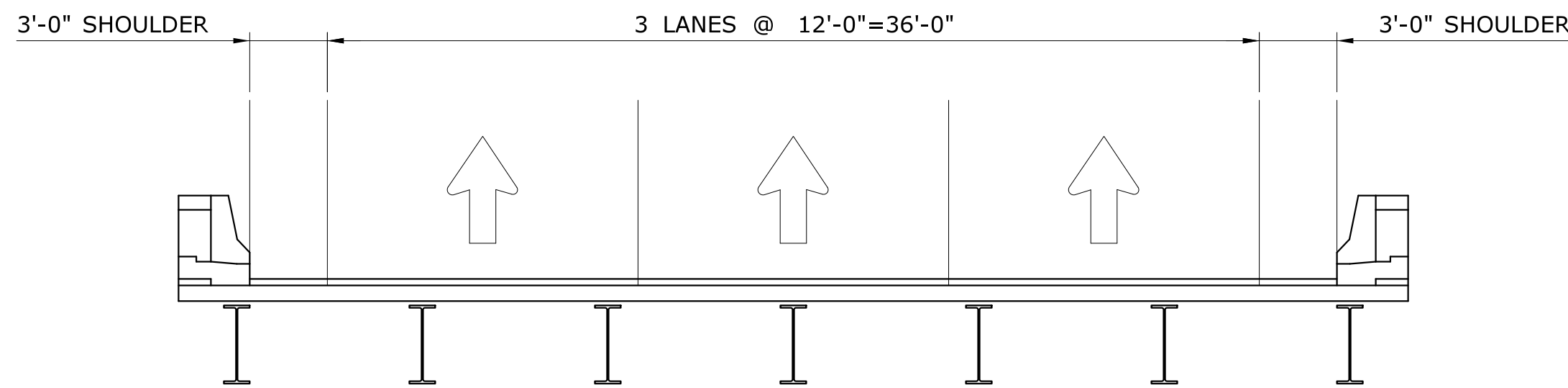
1. STAGING PLAN DETAILS FOR BRIDGE 3160A APPLY TO BRIDGE 3160B.
2. AS ALLOWED BY LIMITATION OF OPERATIONS CHART, INCREASE WORK ZONE WIDTH TO PROVIDE BUFFER DURING CONSTRUCTION. RESTORE 2 LANES AT THE TIME SPECIFIED ON THE CHART.
3. THE CONTRACTOR SHALL COORDINATE THE PARAPET RETROFIT WORK WITH OTHER PARAPET RETROFIT WORK NECESSARY AS PART OF CONTRACT 063-700 & 063-701 (BRIDGE 1765 & 1766; I-84 EB & WB). THE CONTRACTOR SHALL COMBINE THE WORK ZONES AND DETOUR STAGING FOR ALL THREE PROJECTS.
4. THE CONTRACTOR IS REQUIRED TO COMPLETE ALL PARAPET MODIFICATIONS ON BRIDGES 3160A AND 3160B PRIOR TO IMPLEMENTING THE SEASON 2 LONG TERM WORKZONE FOR MEDIAN REPLACEMENT.
5. PARAPET ELECTRICAL AND LIGHT STANDARD WORK NOT SHOWN SEE SUBSET 01.10 AND SHEET S-117 FOR DETAILS.

**REFERENCES**

1. CONTRACTOR SHALL REFER TO THE SPECIAL PROVISIONS FOR MILESTONES TO COMPLETE THE PARAPET RETROFIT WORK.
2. SEE SHEET S-107 FOR FINAL PARAPET CONFIGURATION.

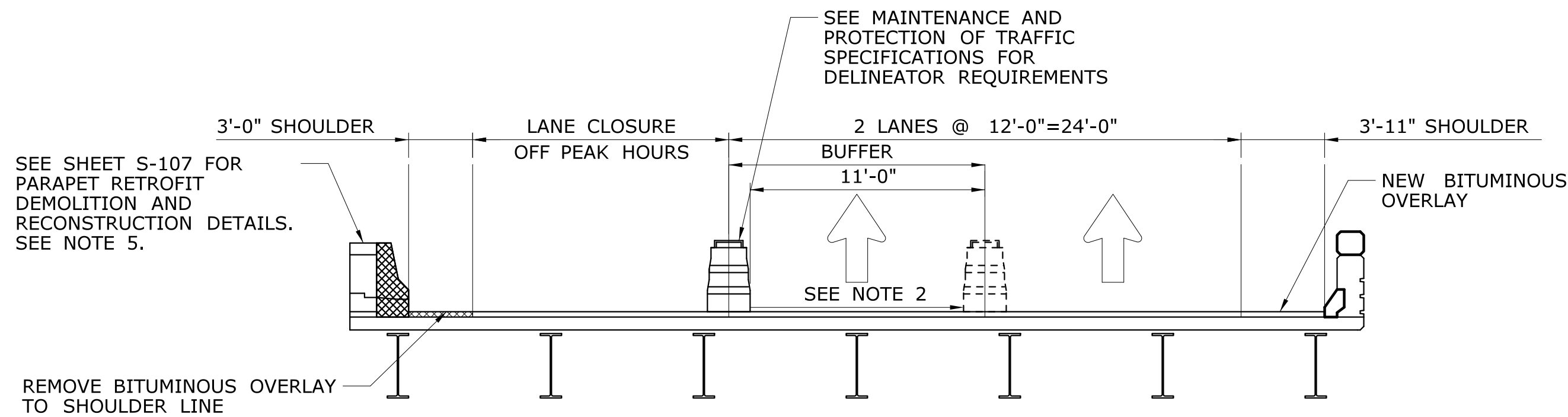
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>MSF</b> CHECKED BY: <b>BSH</b> SCALE AS NOTED	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b> Filename: ...\\SB_MST_BR3160_63-699_Staging_Plans-2.dgn	 <b>Hardesty &amp; Hanover, LLC</b> 59 Elm Street New Haven, CT 06510 	PROJECT TITLE: <b>BRIDGE NO. 03160A-D, 3301 &amp; 3303 I-84 EB/WB OVER AMTRAK &amp; LOCAL ROADS (AETNA VIADUCT)</b>	TOWN: <b>HARTFORD</b> DRAWING TITLE: <b>PARAPET RECONSTRUCTION STAGING PLAN - 1</b>	PROJECT NO. <b>63-699</b> DRAWING NO. <b>STG-03</b> SHEET NO. <b>01.07.03</b>
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/8/2016						





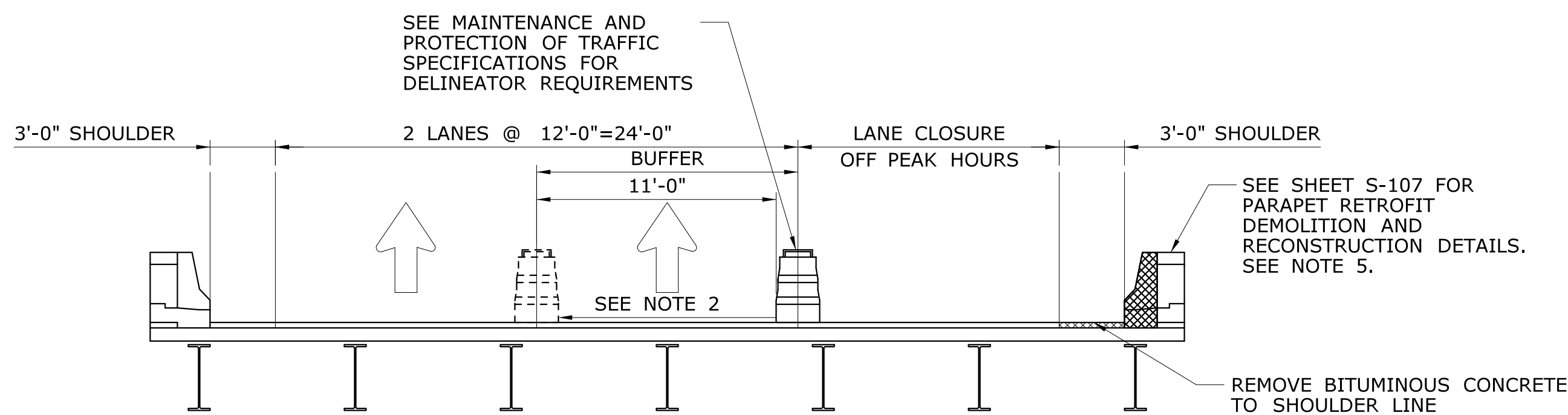
EXISTING CONDITION - PARAPET BOTH SIDES

NOT TO SCALE



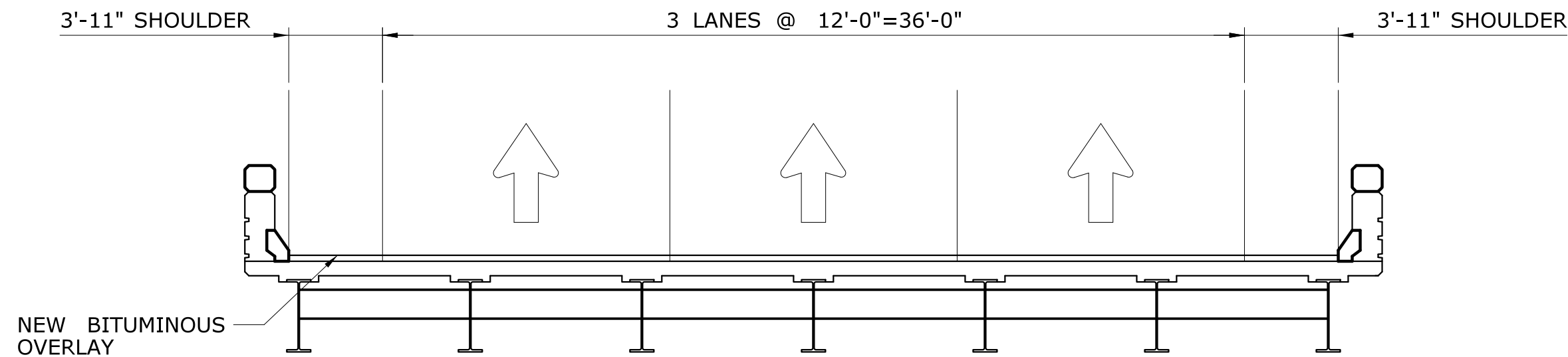
SEASON 1 - PARAPET RECONSTRUCTION PART 2

NOT TO SCALE



SEASON 1 - PARAPET RECONSTRUCTION PART 1

NOT TO SCALE



SEASON 1 - COMPLETED PARAPET RECONSTRUCTION





NOT TO SCALE

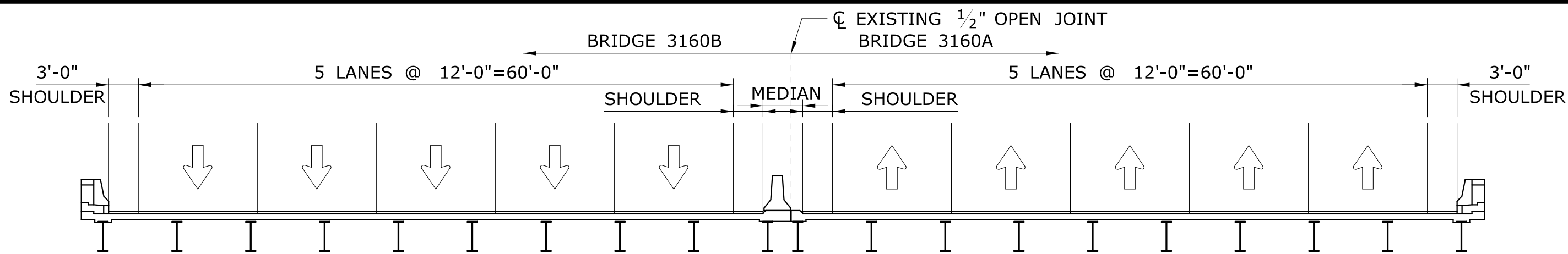
NOTES

1. STAGING PLAN DETAILS FOR BRIDGE 3160A APPLY TO BRIDGE 3160B.
2. AS ALLOWED BY LIMITATION OF OPERATIONS CHART, INCREASE WORK ZONE WIDTH TO PROVIDE BUFFER DURING CONSTRUCTION. RESTORE 2 LANES AT THE TIME SPECIFIED ON THE CHART.
3. THE CONTRACTOR SHALL COORDINATE THE PARAPET RETROFIT WORK WITH OTHER PARAPET RETROFIT WORK NECESSARY AS PART OF CONTRACT 063-700 & 063-701 (BRIDGE 1765 & 1766; I-84 EB & WB). THE CONTRACTOR SHALL COMBINE THE WORK ZONES AND DETOUR STAGING FOR ALL THREE PROJECTS.
4. THE CONTRACTOR IS REQUIRED TO COMPLETE ALL PARAPET MODIFICATIONS ON BRIDGES 3160A AND 3160B PRIOR TO IMPLEMENTING THE SEASON 2 LONG TERM WORKZONE FOR MEDIAN REPLACEMENT.
5. PARAPET ELECTRICAL AND LIGHT STANDARD WORK NOT SHOWN. SEE SUBSET 01.10 AND SHEET S-117 FOR DETAILS.

REFERENCES

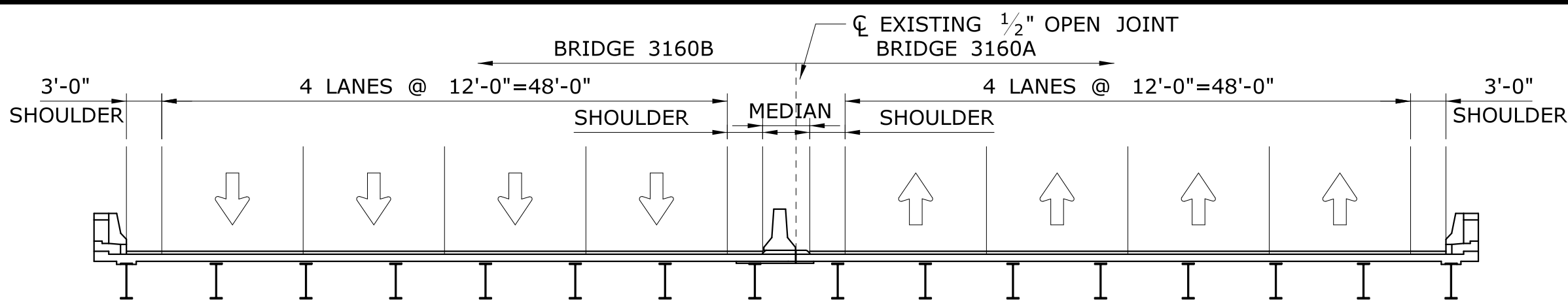
1. CONTRACTOR SHALL REFER TO THE SPECIAL PROVISIONS FOR MILESTONES TO COMPLETE THE PARAPET RETROFIT WORK.
2. SEE SHEET S-107 FOR FINAL PARAPET CONFIGURATION.

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>MSF</b> CHECKED BY: <b>BSH</b>  SCALE AS NOTED	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>	  Hardesty & Hanover, LLC 59 Elm Street New Haven, CT 06510 	PROJECT TITLE: <b>BRIDGE NO. 03160A-D, 3301 &amp; 3303 I-84 EB/WB OVER AMTRAK &amp; LOCAL ROADS (AETNA VIADUCT)</b>	TOWN: <b>HARTFORD</b> DRAWING TITLE: <b>PARAPET RECONSTRUCTION STAGING PLAN - 2</b>	PROJECT NO. <b>63-699</b> DRAWING NO. <b>STG-04</b> SHEET NO. <b>01.07.04</b>
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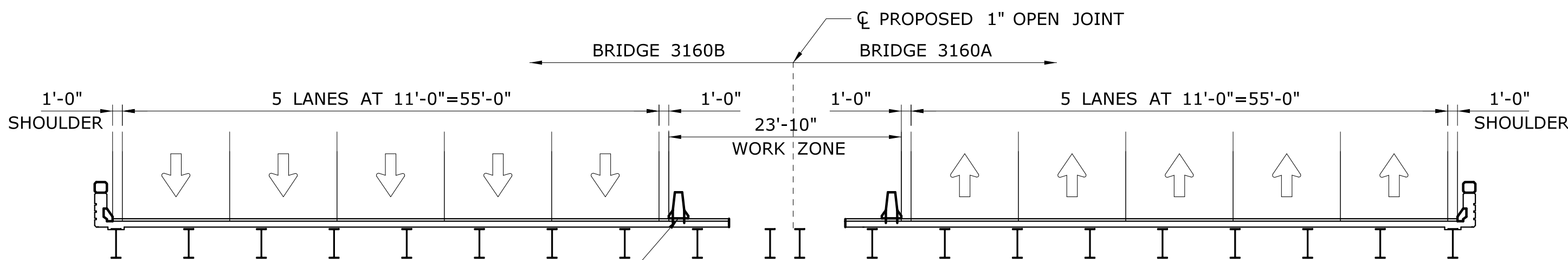
EXISTING CONDITION - 5 LANE

NOT TO SCALE



EXISTING CONDITION - 4 LANE

NOT TO SCALE

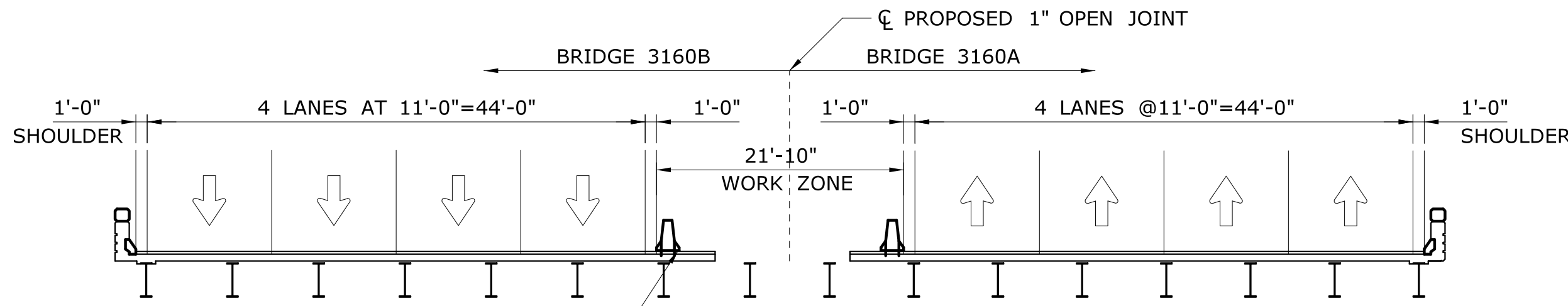


ANCHORED TEMPORARY  
BARRIER SEE SHEET  
STG-06 (TYP.)

SEASON 2 - MEDIAN DEMOLITION AND RECONSTRUCTION 5 LANE\*

NOT TO SCALE

\* WORK THIS DETAIL WITH THE MEDIAN DEMOLITION AND  
RECONSTRUCTION DETAILS ON SHEETS S-111 THROUGH S-115

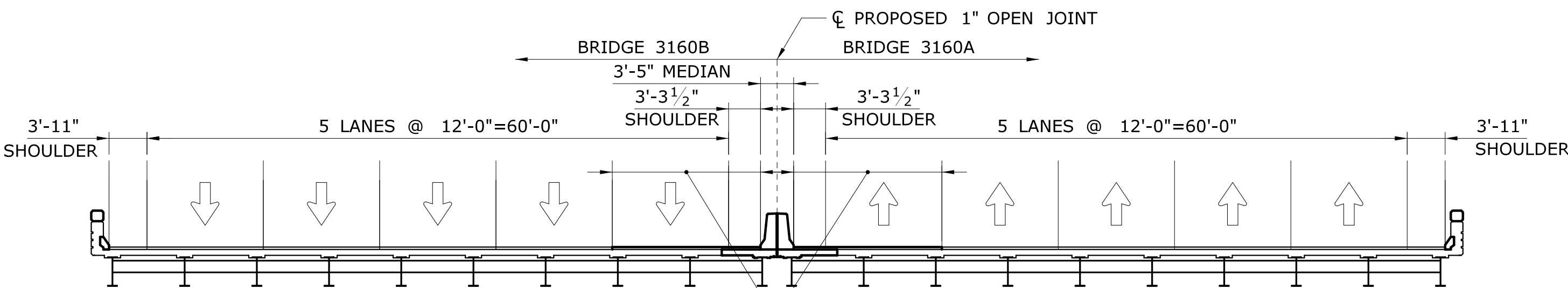


ANCHORED TEMPORARY  
BARRIER SEE SHEET  
STG-06 (TYP.)

SEASON 2 - MEDIAN DEMOLITION AND RECONSTRUCTION 4 LANE\*

NOT TO SCALE

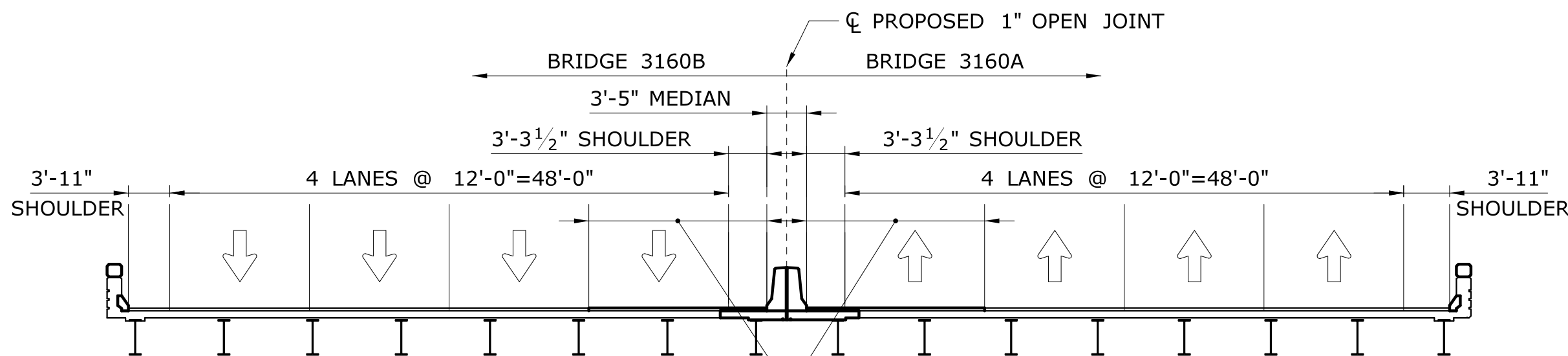
\* WORK THIS DETAIL WITH THE MEDIAN DEMOLITION AND  
RECONSTRUCTION DETAILS ON SHEETS S-111 THROUGH S-115



REPLACE BITUMINOUS  
OVERLAY TO EDGE  
OF LANE

SEASON 2 - FINAL CONDITION 5 LANE

NOT TO SCALE



REPLACE BITUMINOUS  
OVERLAY TO EDGE  
OF LANE

SEASON 2 - FINAL CONDITION 4 LANE

NOT TO SCALE

NOTES

1. STAGING PLAN DETAILS FOR BRIDGE 3160A APPLY TO BRIDGE 3160B.
2. SEE SUBSET 01.06 FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLANS.
3. THE CONTRACTOR SHALL COMPLETE ALL PARAPET MODIFICATIONS ON BRIDGES 3160A AND 3160B PRIOR TO IMPLEMENTING THE SEASON 2 LONG TERM WORKZONE FOR MEDIAN REPLACEMENT.
4. THE CONTRACTOR SHALL COMPLETE ALL DECK PATCHING WORK NECESSARY AS PART OF PROJECT 063-700 & 063-701 PRIOR TO IMPLEMENTING THE SEASON 2 LONG TERM WORKZONE.
5. PARAPET ELECTRICAL AND LIGHT STANDARD WORK NOT SHOWN. SEE SUBSET 01.10 AND SHEET S-117 FOR DETAILS.

REFERENCES

1. SEE SHEET STG-06 FOR ANCHORED TEMPORARY PRECAST CONCRETE BARRIER CURB DETAILS.
2. SEE SHEETS S-111 THROUGH S-115 FOR MEDIAN AND DECK REPLACEMENT DETAILS.

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED  
QUANTITIES OF WORK, SHOWN ON THESE  
SHEETS IS BASED ON LIMITED  
INVESTIGATIONS BY THE STATE AND IS  
IN NO WAY WARRANTED TO INDICATE  
THE CONDITIONS OF ACTUAL QUANTITIES  
OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/8/2016

DESIGNER/DRAFTER: **MSF**  
CHECKED BY: **BSH**  
SCALE AS NOTED



Filename: ...\\SB\_MST\_BR3160\_63-699\_Staging\_Plans-4.dgn

SIGNATURE/  
BLOCK:



PROJECT TITLE:

**BRIDGE NO. 03160A-D, 3301 &  
3303 I-84 EB/WB OVER AMTRAK  
& LOCAL ROADS (AETNA VIADUCT)**

TOWN:

**HARTFORD**

DRAWING TITLE:

**MEDIAN  
RECONSTRUCTION  
STAGING PLAN**

PROJECT NO.

**63-699**

DRAWING NO.

**STG-05**

SHEET NO.

**01.07.05**



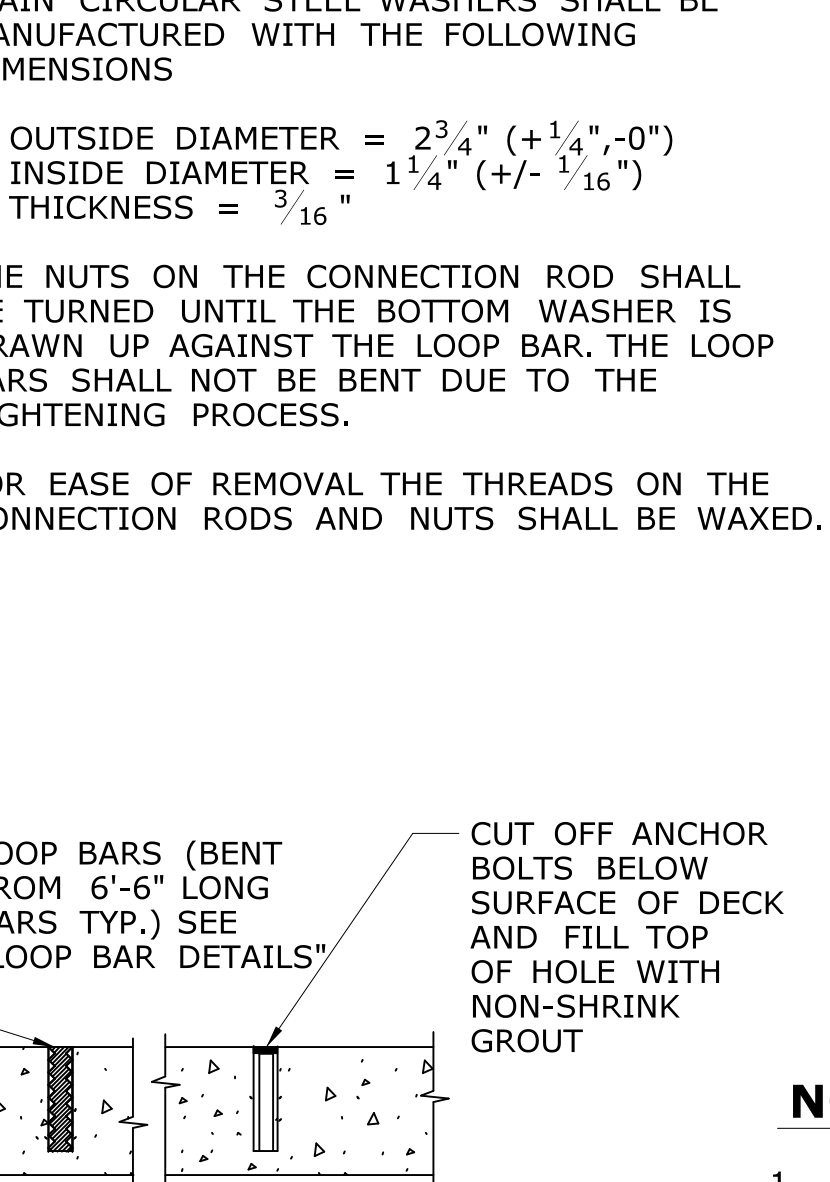
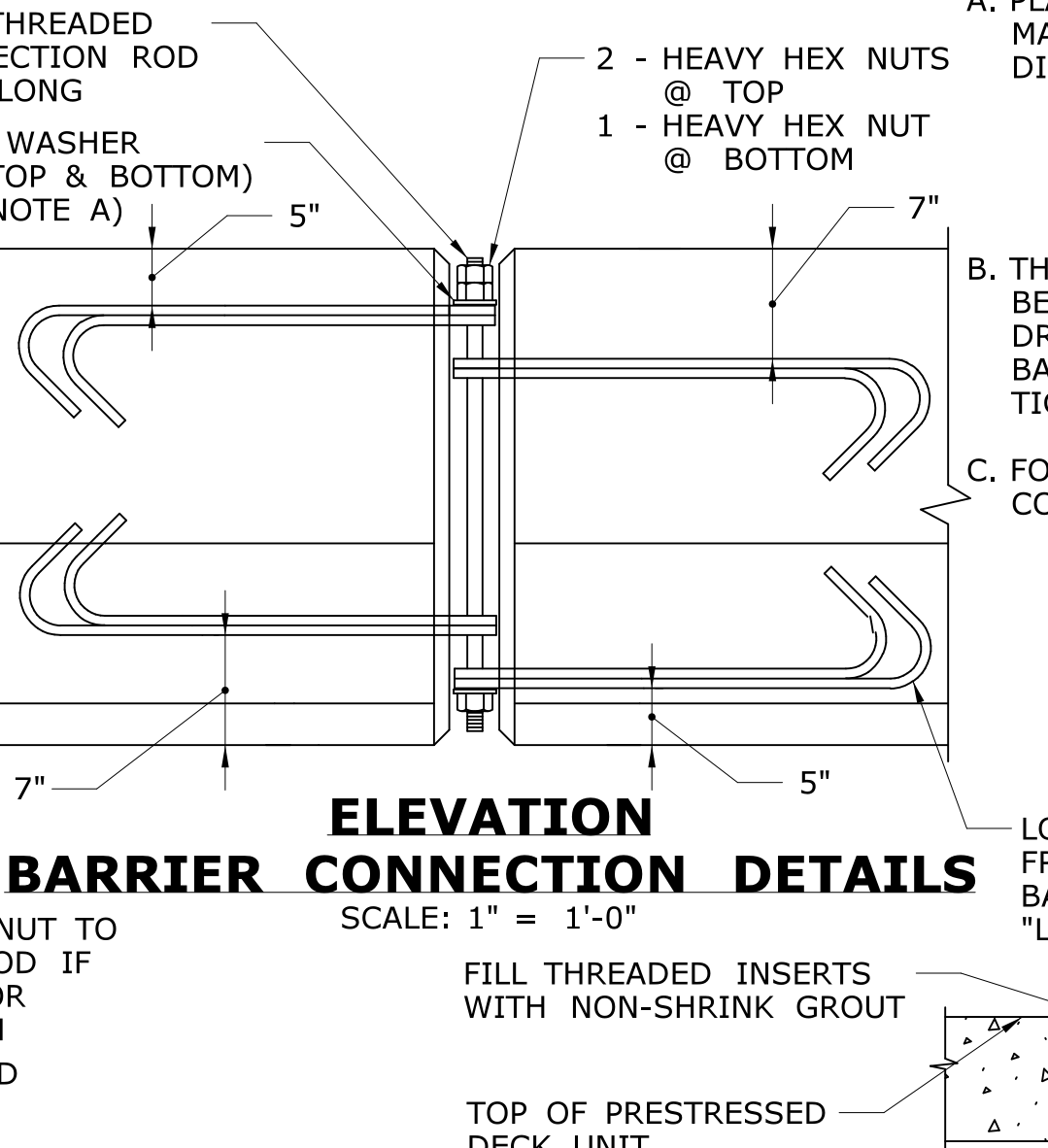
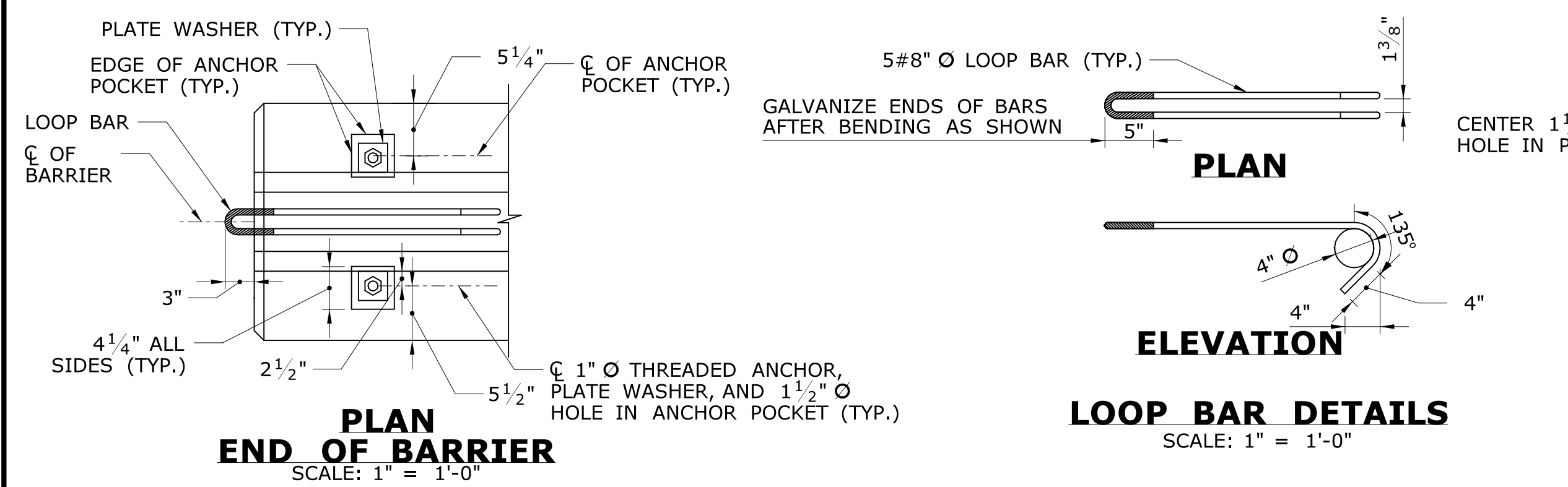
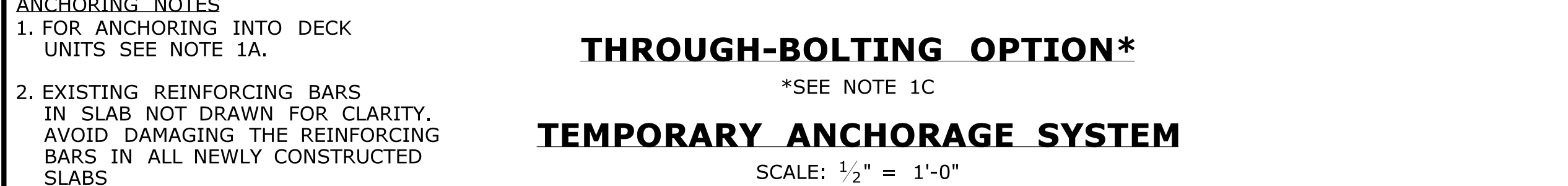
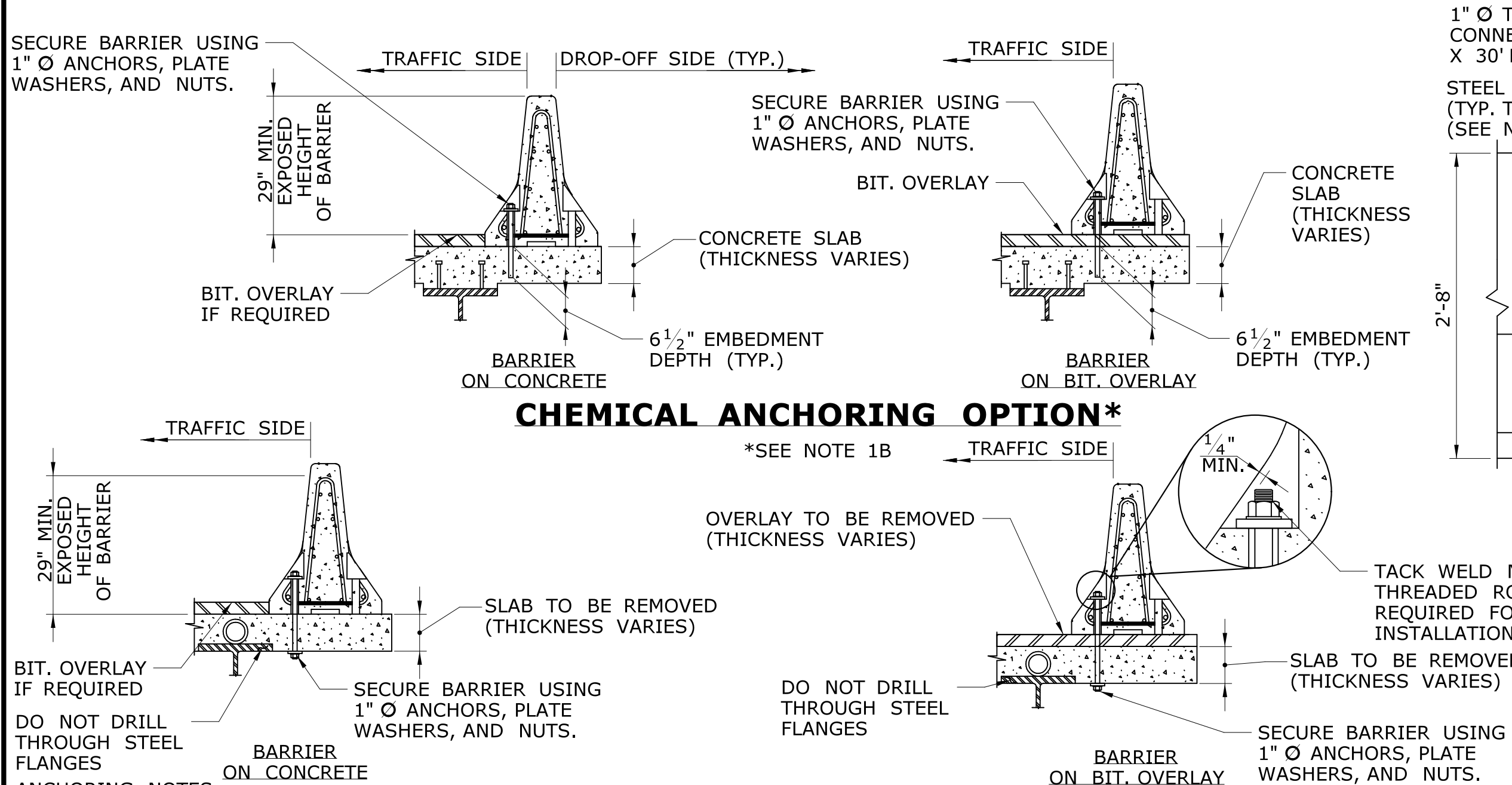
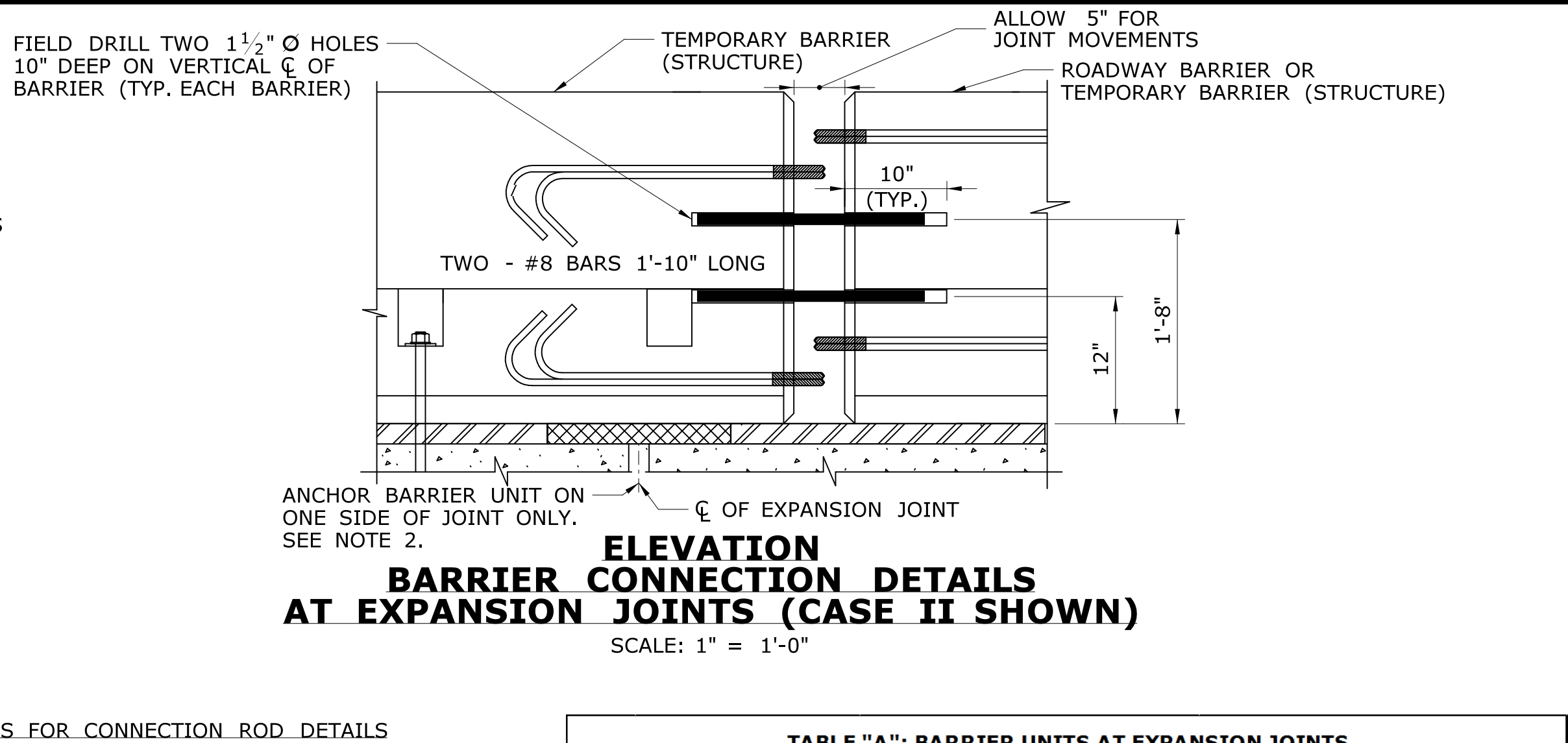
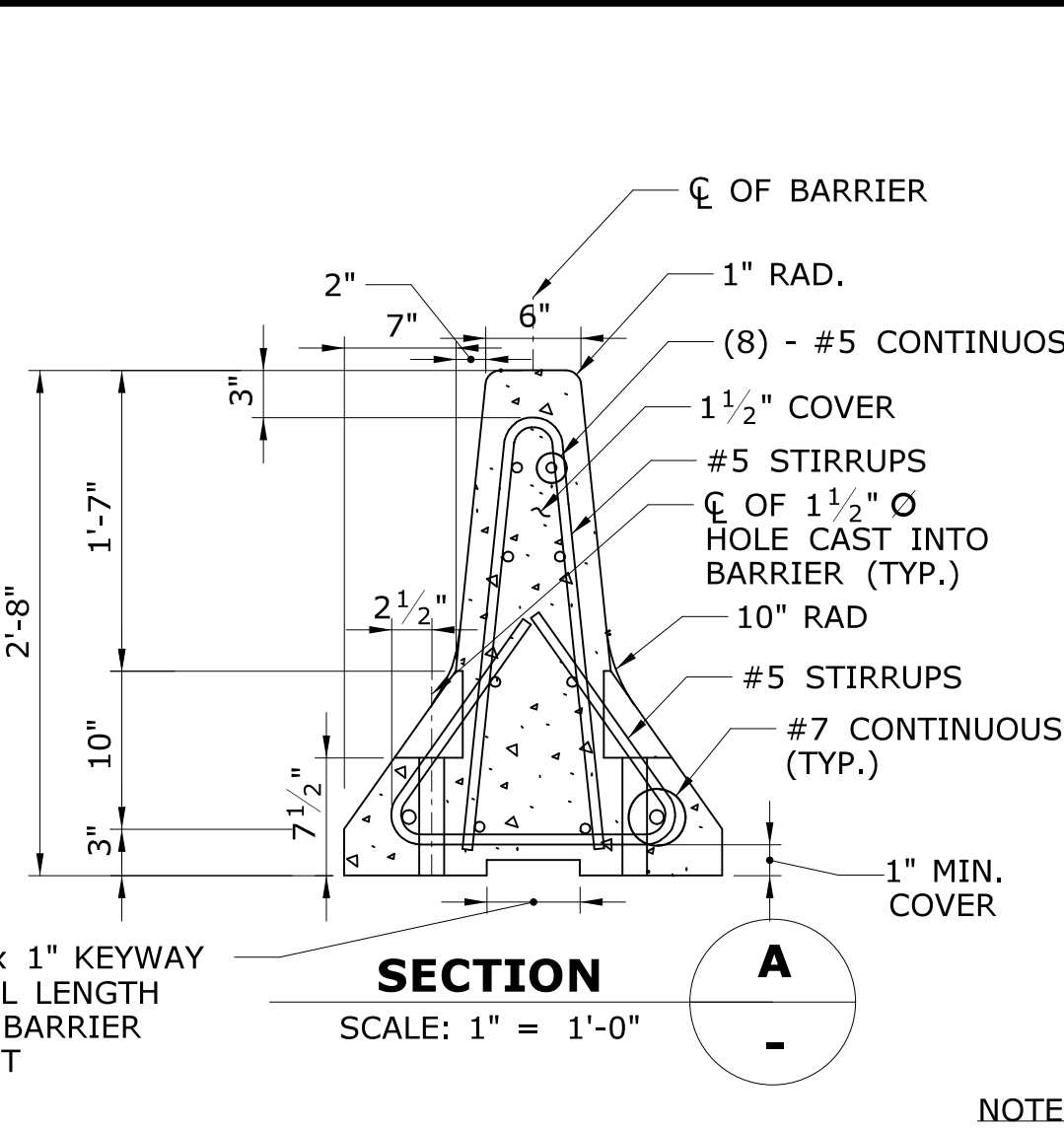
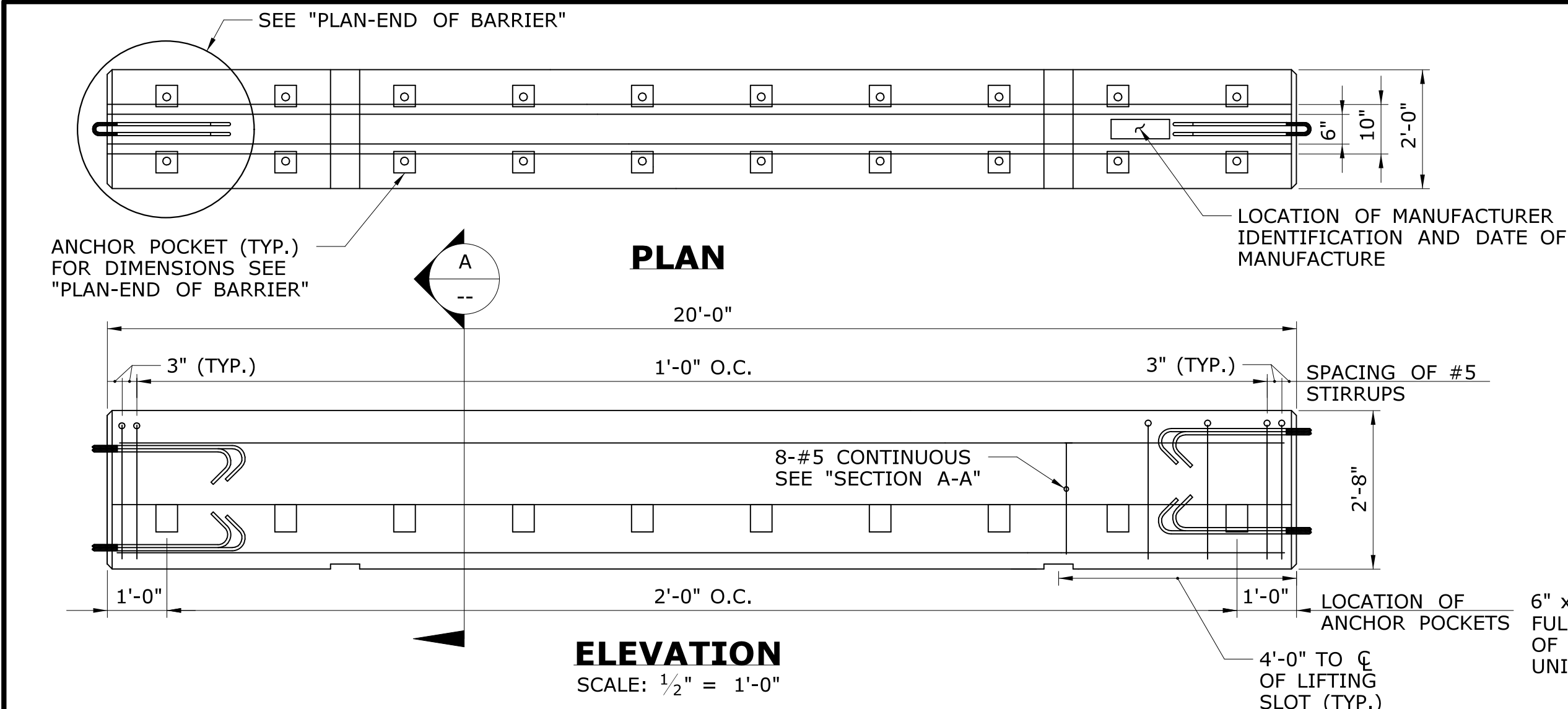





TABLE "A": BARRIER UNITS AT EXPANSION JOINTS			
Case	SPAN LENGTH CONTRIBUTING TO MOVEMENT AT THE EXPANSION JOINT.	METHOD OF END CONSTRUCTION TO ABUTTING BARRIER UNIT. (WHERE MOVEMENT WILL OCCUR)	ANCHOR REQUIREMENTS FOR BARRIER UNIT WHICH STRADDLES THE BRIDGE JOINT.
I.	UP TO 100'	USE 1" CONNECTION ROD BUT DO NOT OVER TIGHTEN THE NUTS AND ALLOW ROOM FOR EXPANSION AROUND THE ROD AND LOOPS.	ON ONE SIDE OF THE JOINT ONLY, INSTALL AS MANY ANCHORS AS POSSIBLE ON THE TRAFFIC SIDE OF THE BARRIER. ON THE OTHER SIDE OF THE JOINT DO NOT INSTALL ANCHORS.
II.	100' TO 400'	FIELD DRILL HOLES IN ENDS OF BOTH UNITS AND CONNECT WITH 2- #8 BARS. FOR DETAILS SEE "BARRIER CONNECTION DETAILS".	ON ONE SIDE OF TE JOINT, INSTALL A TOTAL OF 10 ANCHORS. FILL THE POCKETS ON THE TRAFFIC SIDE BEFORE FILLING THE POCKETS ON THE DROP-OFF SIDE. IF THIS CANNOT BE ACHIEVED SEE III BELOW.
III.	OVER 400' AND BARRIER LAYOUTS WHICH DO NOT SATISFY II.	TO BE DESIGNED BY CONTRACTOR AND REVIEWED BY ENGINEER. COST OF DESIGNING AND FURNISHING SPECIAL BARRIER UNITS OR ATTACHMENTS PAID FOR UNDER "TPCBC (STRUCTURE)".	TO BE DEISIGNED BY CONTRACTOR AND REVIEWED BY ENGINEER. COST OF DESIGNING AND FURNISHING SPECIAL BARRIER UNITS OR ATTACHMENTS PAID FOR UNDER "TPCBC (STRUCTURE)".

- NOTES**
- THE TEMPORARY BARRIER SHOWN ON THIS SHEET SHALL BE ANCHORED ONTO BRIDGE DECKS (SEE "TEMPORARY ANCHORAGE SYSTEM") WHEN IT IS USED TO PROTECT A VERTICAL DROP-OFF. THE TEMPORARY ANCHORAGE SYSTEM SHALL CONFORM TO THE FOLLOWING:
    - PRESTRESSED DECK UNITS: THREADED INSERTS SHALL BE USED FOR SECURING TEMPORARY BARRIER (STRUCTURE) TO PRESTRESSED DECK UNITS. THE THREADED INSERTS SHALL BE CAST INTO THE DECK UNITS DURING FABRICATION AND SHALL BE LOCATED AS REQUIRED TO ACCOMMODATE THE STAGE CONSTRUCTION. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
    - CHEMICAL ANCHORING: THIS CONSIST OF DRILLING HOLES IN NEW OR EXISTING CONCRETE, PLACING THREADED ANCHORS IN THE HOLES, AND SECURING THE ANCHORS WITH PRE-APPROVED CHEMICAL ANCHOR MATERIAL WHICH CONFORMS TO M.03.01-15 OF THE STANDARD SPECIFICATIONS. HOLE DIAMETER SHALL BE DETERMINED BY THE MANUFACTURER OF THE CHEMICAL ANCHORING MATERIAL.
    - THROUGH-BOLTING: THIS CONSISTS OF DRILLING THROUGH DECK SLABS AND SECURING REMOVABLE ANCHORS ON THE UNDERSIDE WITH PLATE WASHERS AND NUTS. THROUGH-BOLTING IS NOT PERMITTED ON NEW CONSTRUCTION OR PRESTRESSED CONCRETE. MAXIMUM HOLE SIZE IN SLAB IS 1 1/2".
  - NUMBER OF ANCHORS: ON THE TRAFFIC SIDE OF A TYPICAL BARRIER, ANCHORS SHALL BE INSTALLED IN ALL POCKETS. AT BARRIER UNITS WHICH STRADDLE BRIDGE EXPANSION JOINTS THE ANCHOR AND CONNECTION DETAILS SHALL CONFORM TO TABLE "A".
  - THE WORK DONE ON THIS SHEET, WITH THE EXCEPTION OF THE DELINEATORS, SHALL BE PAID FOR UNDER THE ITEM "TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)".

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>MSF</b>	 <b>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</b>	SIGNATURE/ BLOCK:  Hardesty & Hanover, LLC 59 Elm Street New Haven, CT 06510  Hardesty & Hanover	PROJECT TITLE: <b>BRIDGE NO. 03160A-D, 3301 &amp; 3303 I-84 EB/WB OVER AMTRAK &amp; LOCAL ROADS (AETNA VIADUCT)</b>	TOWN: <b>HARTFORD</b>	PROJECT NO. <b>63-699</b>	
-	-	-	-		CHECKED BY: <b>BSH</b>				DRAWING TITLE: <b>TEMPORARY PRECAST BARRIER CURB</b>	DRAWING NO. <b>STG-C</b>	
-	-	-	-		SCALE AS NOTED					SHEET NO. <b>01.07</b>	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.		Plotted Date: 8/8/2016				Filename: ...\\SB.MST_Br3160_063-699_TPBC.dgn		